

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92A-01-11M	2011	ADD.22	42

PLANTING NOTES:

- Landscape Contractor shall field verify all plant quantities and dimensions prior to installation. Quantities shown on plant list are for reference only, verify actual quantities as shown on plan. If there is discrepancy, the planting plan shall take precedence.
- Landscape Contractor shall be responsible for location and protecting existing utilities.
- Prior to tree excavation, all planting locations shall be staked out by Contractor for approval by Engineer. Do not plant until ground has been prepared and free of stones greater than 1/2" diameter, pipes, debris, trash, stumps, shrubs; site is neat, orderly, and the Engineer accepts site for planting.
- Notify Engineer of any discrepancies in plant locations or insufficient plant quantities due to difference in plans and actual field conditions.
- Notify Engineer 30 days prior to planting operations for approval of all plant material at place of growth. All plant material not approved by the Engineer will be subject to rejection.
- The Engineer will inspect plants at the place of growth and after the delivery to the project. Each tree shall be tagged by the engineer with a consecutively numbered plastic tamper-resistant and self-locking seal. Seals shall remain on tree and only be removed by the engineer at the completion of the plant establishment period. Trees delivered to the project without engineers seal will be rejected.
- Plants shall meet size indicated by minimum height and spread. Plants shall be straight and uniformly shaped, unless unique or special characteristics are specified, and shall be undamaged, sound, healthy, vigorous and free of disease and insect infestation. Plants not conforming to these requirements on delivery to the project and at the end of the plant establishment period will be rejected.
- Contractor shall be solely responsible for the complete removal and damages resulting from planting any plant species listed on the Hawaii Department of Agriculture 'Noxious weed rules' as defined in the statute, Hawaii Administrative Rules 4:68:1 or the 'Federal Noxious Weed List' as defined in Title 7 of the code of Federal Regulations (CFR), parts 360 and 361.
- All tree work must adhere to American National Standard Institute (or ANSI)-A300 tree care standards and ANSI-Z133 safety standards for tree work. Work shall be contracted to Arborists that has been certified in good standings as an ISA certified Arborist for at least 5 years to assure that tree work is performed properly and trees are not damaged by practices such as topping, flush cuts, over-thinning, or climbing with spikes. Contractor shall submit a copy of the ISA Arborist certification of good standing if 5 years to the Engineer minimum 7 days prior to tree pruning.
- For the duration of construction within the drip line of trees to remain there must be: no changes, alterations or disturbance to the grade by adding fill, excavating or scraping except as noted on plans; no storage of construction material or equipment; no stockpiling of any construction material or any excavated material no disposal of any liquids (e.g. concrete sleuth, gas, oil paint); no vehicular traffic, equipment or excessive pedestrian traffic no attachment of any wires, ropes, lights, or any other such attachment other than those of protective nature to any tree to be preserved; and no cleaning of equipment or material under the canopy of any tree or group of trees to remain.
- If trees other than those specifically designated for removal are damaged beyond survival conditions as determined by engineer, the contractor shall remove such trees and replace the tree with a same specie and size and maintain for the duration of construction or 12 months whichever is greater at no cost to the state.
- Representative samples of soil from project site shall be submitted to the University of Hawaii Agricultural Extension Service or laboratory acceptable to the engineer for analysis of required soil amendments. Test results and fertilization schedule shall be presented to the engineer for review and acceptance before placing planting soil. Uniformly distribute fertilizer and amendments over planting areas as recommended by the soil analysis report. Rototill top four-inches of soil to evenly incorporate fertilizer and amendments. After completion of soil amendments, retest to meet soil analysis. Continue amending until test meets soil test recommendations. Provide copy of all soil tests to engineer.
- Guy wires, flagging, stakes, windbreakers, etc. shall be maintained and replaced if necessary by the Contractor until the tree or shrub is able to stand by itself. The Contractor shall remove and dispose at the end of plant establishment period.
- Any planting that obstructs sight distance, signs or traffic lights shall be relocated or removed as determined by the Engineer.
- All palms shall be set back a minimum of 30 inches from the face of the curb.
- The State of Hawaii owns the Fiji Fan Palms. The source of the Fiji Fan Palms shall be the City and County of Honolulu High Capacity Transit Corridor Project holding site which shall be within 25 miles of Waipahu. The contractor shall coordinate with the City and County of Honolulu for access to the holding site and transport the Fiji Fan Palms to the project. The contractor shall be solely responsible for replacing all Fiji Fan Palms that do not survive with same species and same heights.

QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
89	<i>Pritchardia pacifica</i>	Fiji Fan Palm	25 - 30' Brown Trunk	
△ 76	<i>Cocos nucifera</i>	Coconut Palm	15 - 20' Brown Trunk	Field Specimen. Free of climbing spike holes.
90,000 sq. ft.	<i>Stenotaphrum secundatum</i>	St. Augustine Grass Sod	Sod	Sod

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

5/10/11	Adjusted total count of coconut trees △
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE DETAILS & NOTES

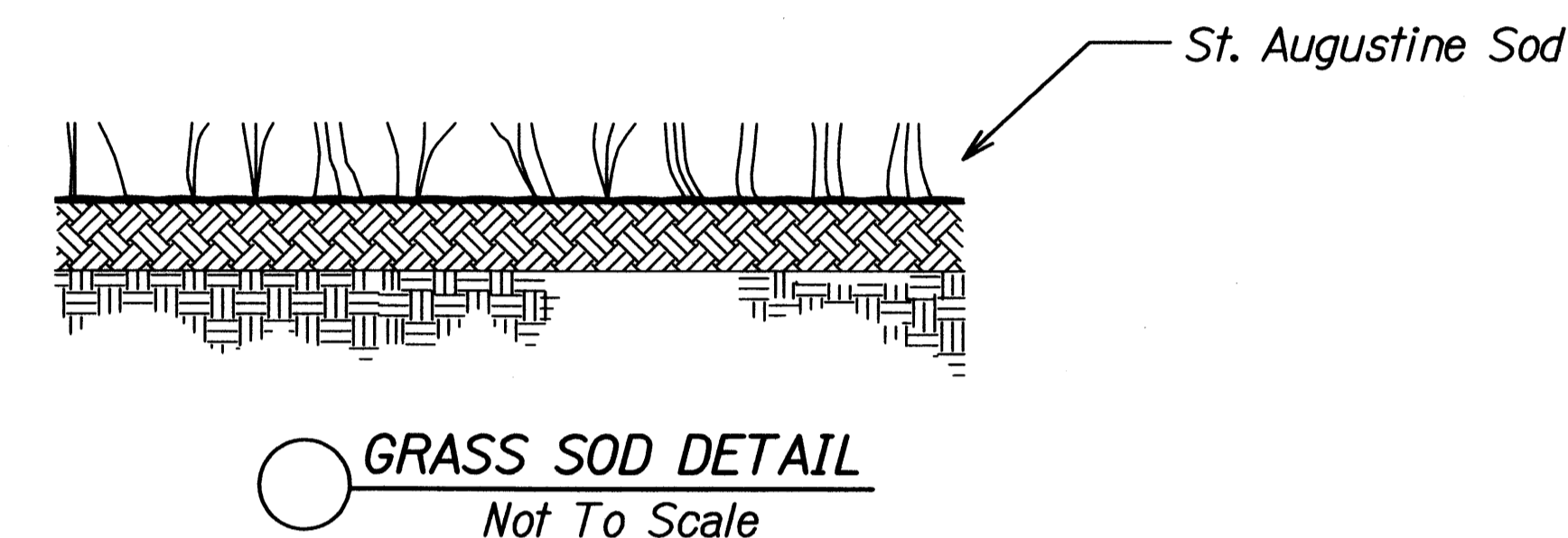
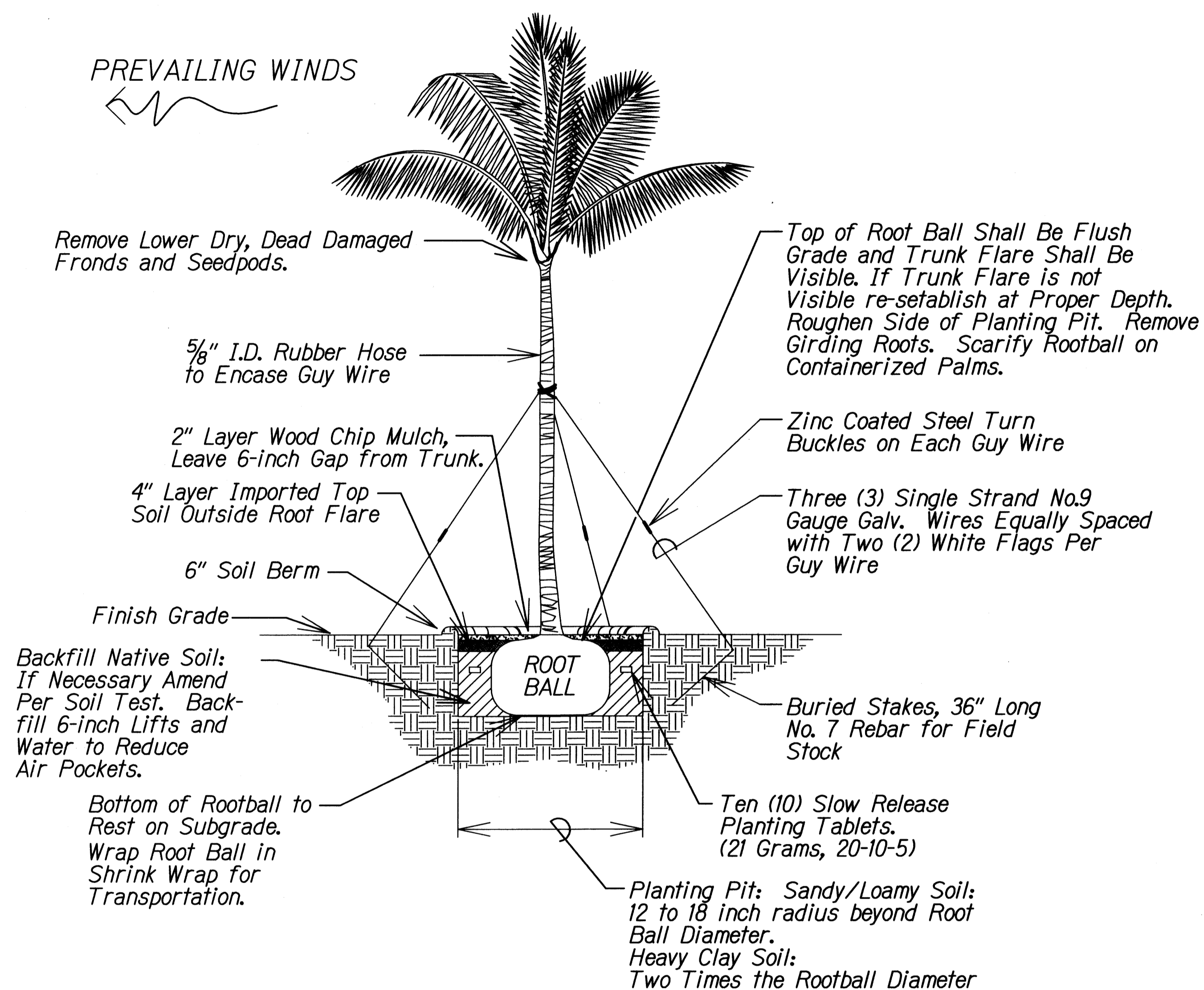
NIMITZ HWY. MEDIAN IMPROVEMENTS

Sand Island Access Road
to Vicinity of Alakawa Street

Project No. 92A-01-11M
Scale: Not to Scale Date: March, 2011

SHEET No. 1 OF 4 SHEETS

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Notes:

1. Trunk Must Be Protected From Rope Sling Burns and Abrasion During Moving.
2. Water Heavily to Insure Soil Settles Around Roots.
3. Tree Shall be Plumb, If There is Leaning at the End of the Plant Establishment Period, The Tree Shall be Rejected.
4. Protect Heart and Tip from Damage and Breakage During Transporting and Transplanting.
5. Adjust location as necessary to provide minimum 10 feet from overhead utility lines.
6. All palms shall be set back a minimum of 30" from face of curb.

⑦ PALM PLANTING DETAIL
Scale: N.T.S.

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
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ORIGINAL PLAN	
NOTE BOOK	
DATE	
BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE DETAILS & NOTES

NIMITZ HWY. MEDIAN IMPROVEMENTS
Sand Island Access Road
to Vicinity of Alakawa Street
Project No. 92A-01-11M
Scale: Not to Scale Date: March, 2011

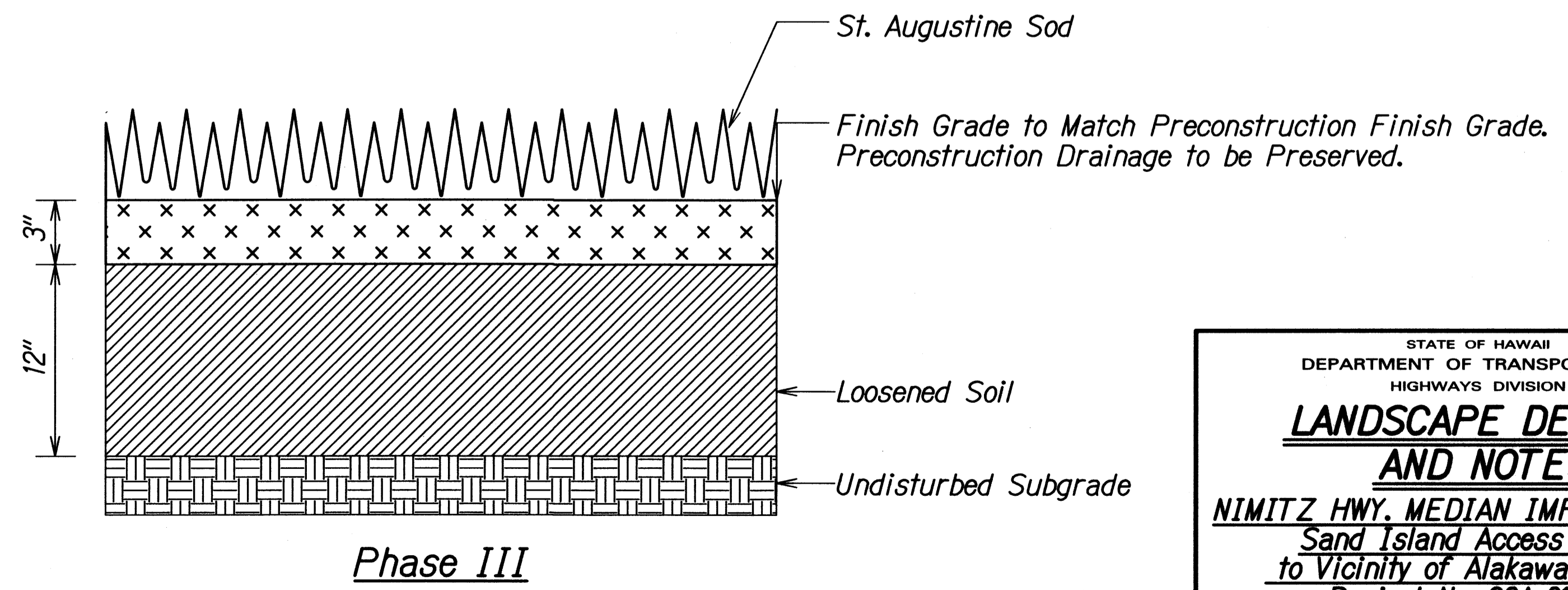
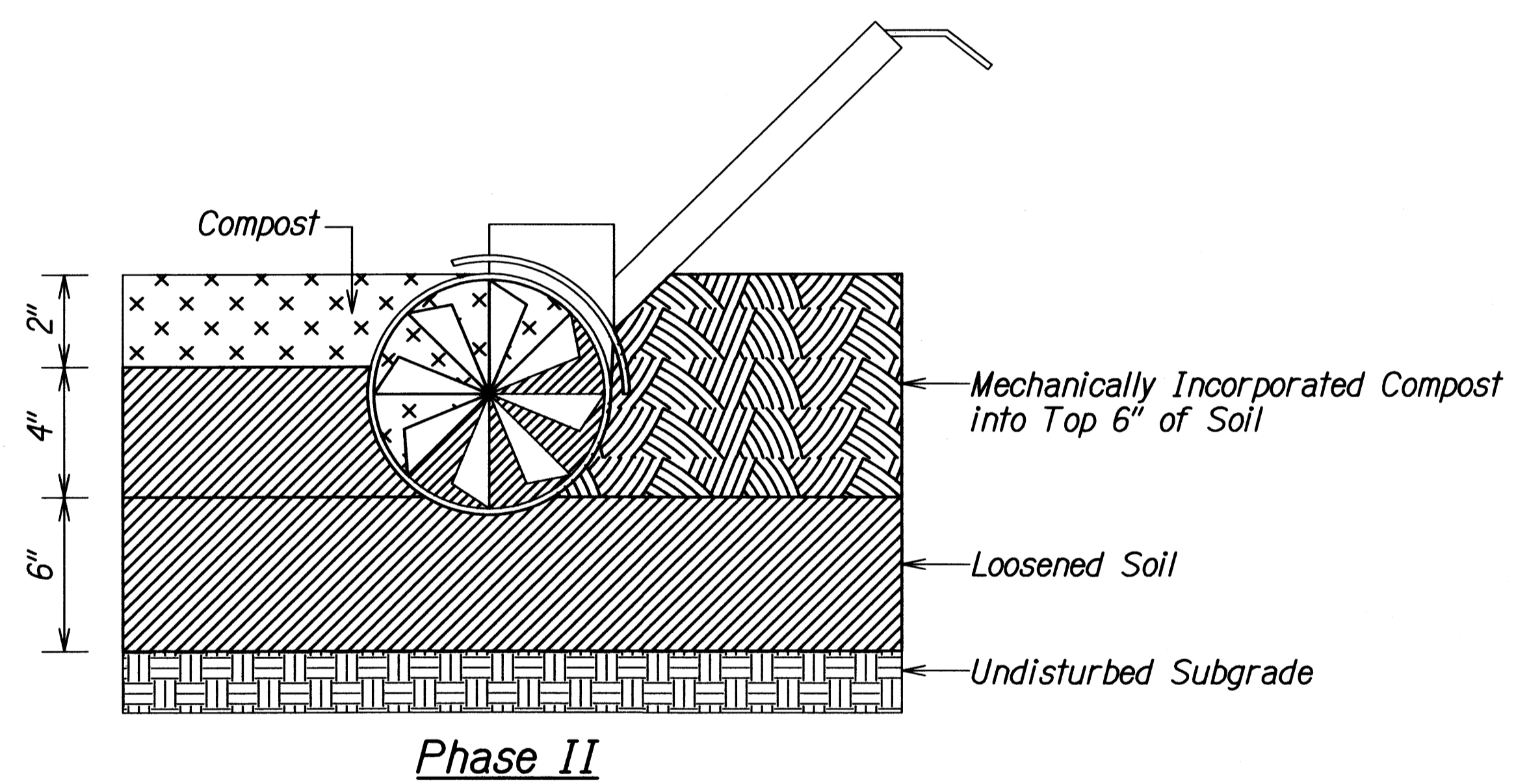
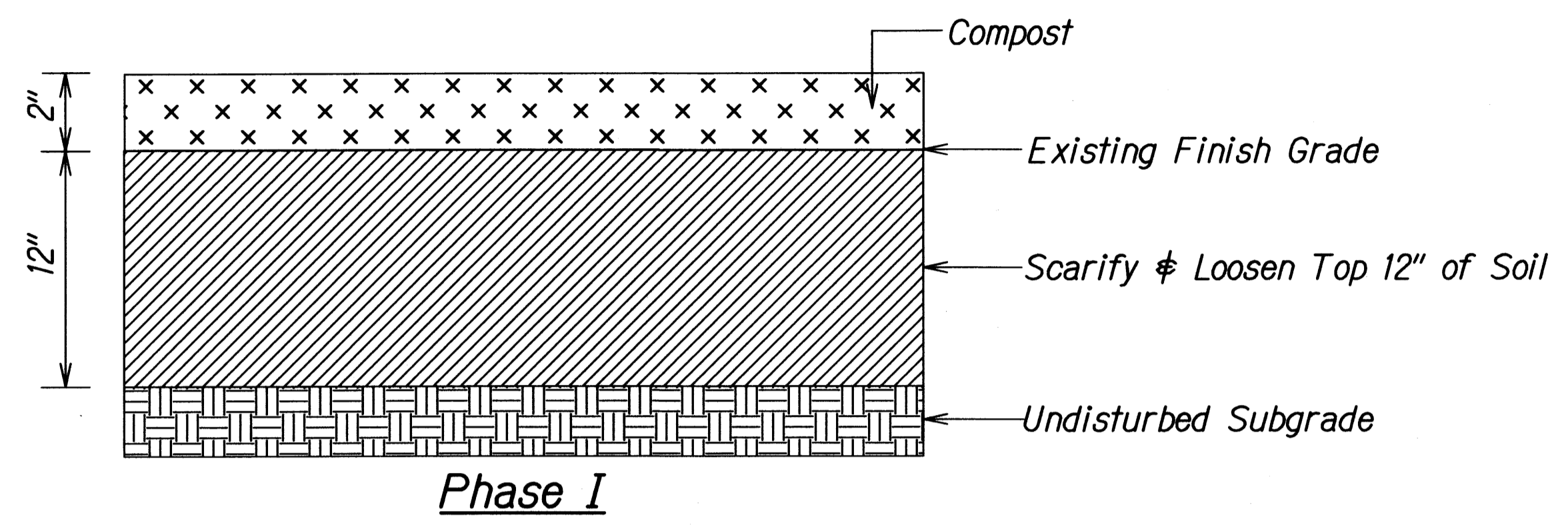
SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92A-01-11M	2011	24	42

SOIL PREPARATION NOTES:

1. Install orange construction fence around existing palms to remain. Temporary fence shall be five(5) feet from trunk of palm. Do not disturb soil within fence. Remove fence after grass sod is installed.
2. Contractor shall utilize existing soil for the project. Finish grade of the completed project shall remain approximately the same as existing grade. Preserve existing drainage patterns. Soil Preparation notes apply to all median areas.
3. Do not screen existing soil.
4. Use locally available compost such as Hawaiian Earth Products compost.
5. Do not work the soil when air or soil is so moist that excessive compaction occurs or so dry that dust forms. Apply water if necessary to bring soil to optimal moisture content for tilling, planting and dust control.
6. Remove and Dispose of Top Layer of Road Silt in the Median.
7. Remove and dispose of plastics, glass, gravel, plastic and metal header, trash and stones greater than 1 inch diameter as a result of soil preparation.
8. The contractor shall only perform soil preparation to the extent that can be completed by the end of work day. Any exposed soils at the end of the work day shall be covered with compost.

SOIL PREPARATION PROCESS



PHASE I

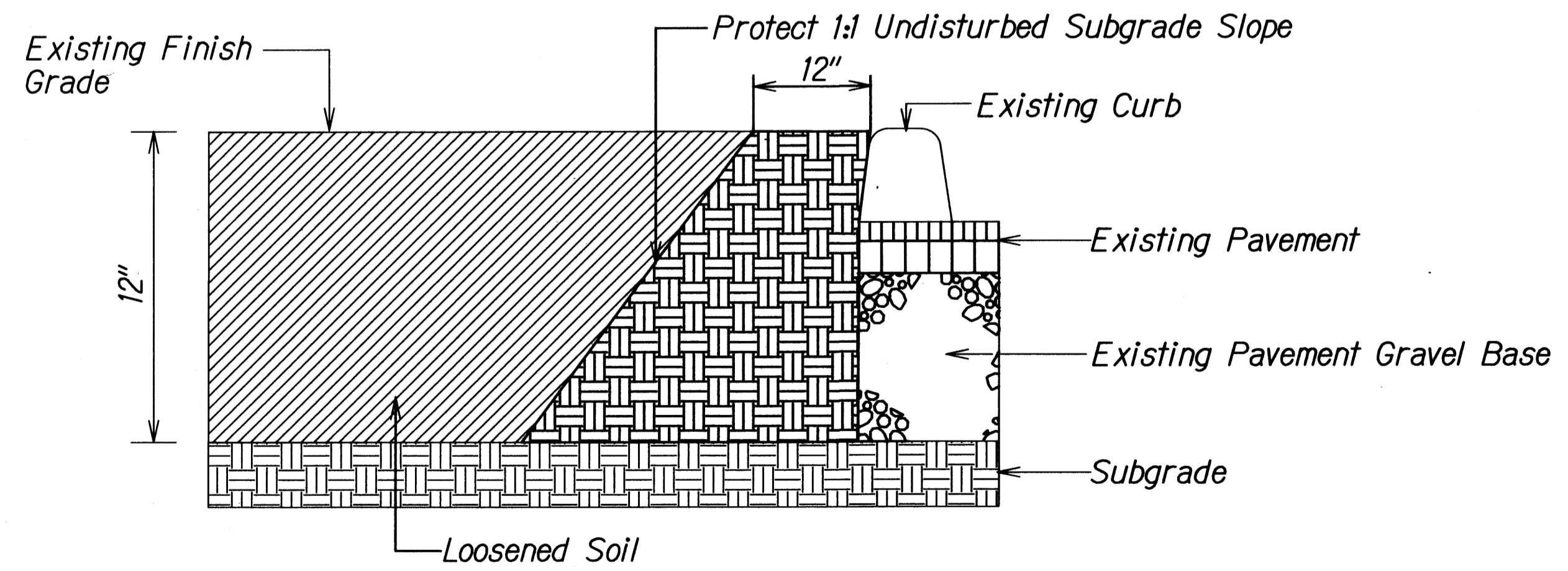
9. Prior to construction, uniformly spread two inches of compost over entire median to be planted.
10. Scarify the top 12 inches of existing soil.
11. Apply generous amounts of water to break soil clumps to between one inch and six inches in diameter.

PHASE II

12. Apply 2 inches of compost and mechanically incorporate into the top 6 inches of soil. Afterwards do not allow vehicles or equipment on median.

PHASE III

13. Grade soil to a smooth and even finish without abrupt changes or pockets.



PAVEMENT EDGE PROTECTION DETAIL

Note: After the completion of the soil preparation, remove the top two inches of soil within 12 inches of the pavement edge careful not to damage the pavement. Repair all damaged pavement and curb as a result of construction activity as directed by the Engineer at the contractor's expense.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	CHECKED BY	

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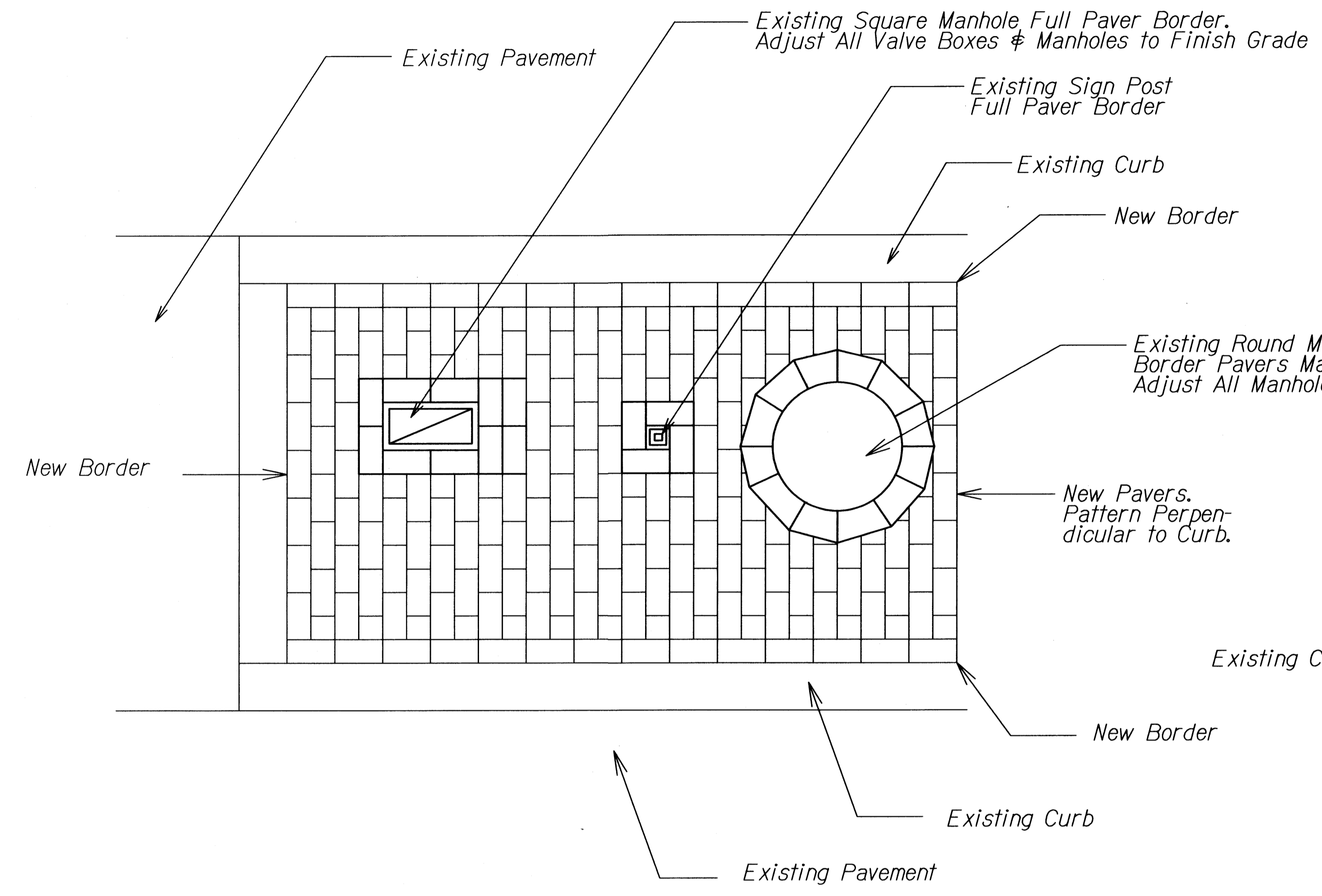
**LANDSCAPE DETAILS
AND NOTES**

NIMITZ HWY. MEDIAN IMPROVEMENTS
Sand Island Access Road
to Vicinity of Alakawa Street
Project No. 92A-01-11M

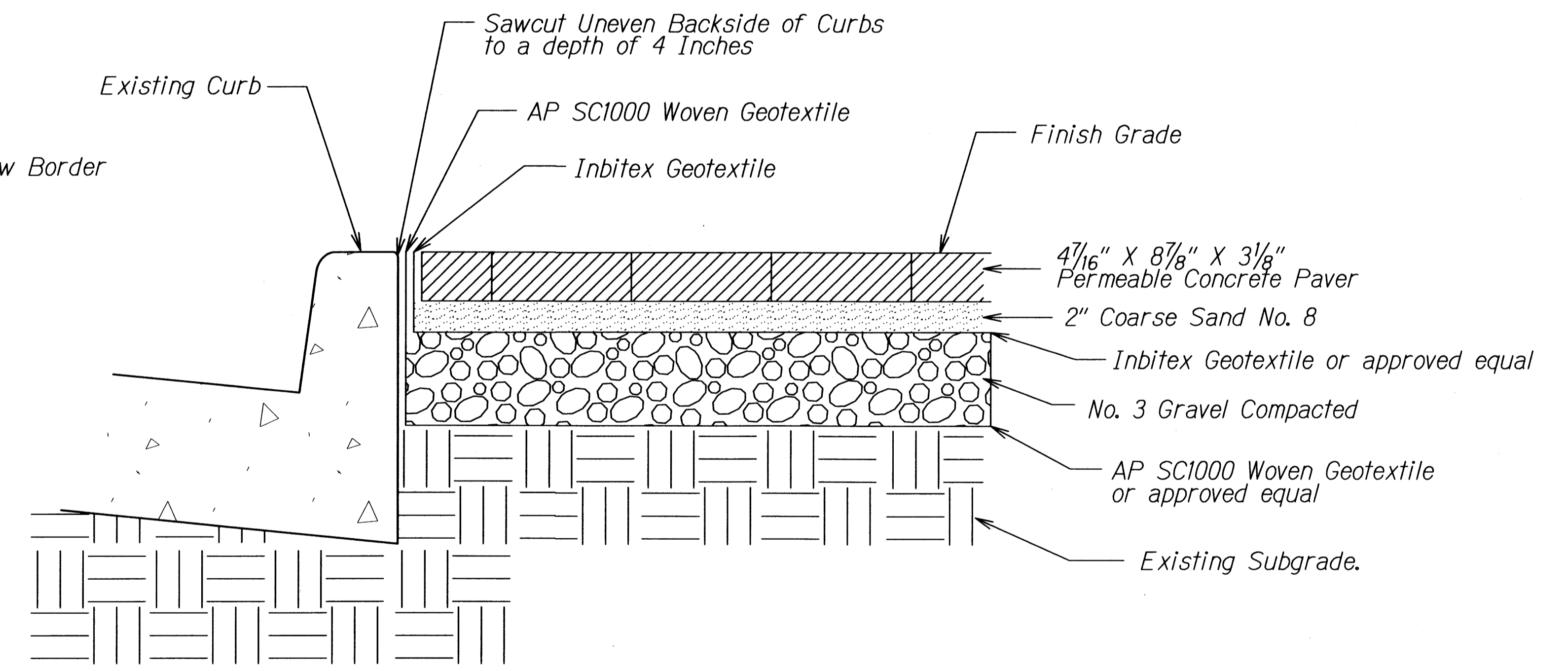
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SHEET No. 3 OF 4 SHEETS

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TYPICAL PAVING PATTERN
Not To Scale



PERMEABLE CONCRETE PAVER DETAIL
Not To Scale

- Notes:
1. Finish Grade shall be an even line from the Makai top of curb to the Mauka top of curb.
 2. Adjust all valve boxes, utility boxes and manholes to finish grade.
 3. Sawcut uneven concrete to a depth of 4 inches to provide a tight fit with the permeable concrete paver.
 4. Sawcut excessive concrete around sign posts, traffic signal poles, manholes, and utility boxes so that no more than 3 inches beyond appurtenances.

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**LANDSCAPE DETAILS
AND NOTES**
NIMITZ HWY. MEDIAN IMPROVEMENTS
Sand Island Access Road
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Project No. 92A-01-11M
Scale: NTS Date: March, 2011
SHEET No. 4 OF 4 SHEETS